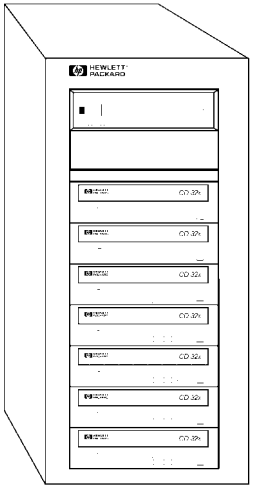
HEWLETT® PACKARD

HP J4148A

User's Guide

HP SureStore CD Expansion Tower

User's Guide



HP J4148A SureStore CD Expansion Tower

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Applicable Products:

J4148A

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Warranty

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A copy of the specific warranty terms applicable to your HP product and replacement parts can be obtained from your HP Sales and Service Office or Authorized dealer.

For warranty service information, see appendix B in this guide.

Hewlett-Packard Company
8000 Foothills Boulevard
Roseville, California
95747-6588

Safety Considerations

Prior to the installation and use of this product, review all safety markings and instructions.

	Instruction Manual Symbol. If the product is marked with this symbol, refer to product manuals to protect the product from damage.
WARNING	Denotes a hazard that can cause injury
CAUTION	Denotes a hazard that can damage equipment or data.

Do not proceed beyond a **WARNING** or **CAUTION** notice until you have understood the hazard and have taken appropriate precautions.

Use of control, adjustments, or performance procedures other than those specified herein may result in hazardous radiation exposure. To prevent direct exposure to a laser beam, do not try to disassemble the CD-ROM drives.

Grounding. This product provides a protective earthing terminal. There must be an uninterruptible safety earth ground from the main power source to the product's input wiring terminals, power cord, or supplied power cord set. Whenever it is likely that the protection has been impaired, disconnect the power cord until the ground has been restored.

For more safety information, see appendix D.

Servicing. There are no user-serviceable parts inside the user-installable modules comprising the product. Any servicing, adjustment, maintenance, or repair must be performed only by service-trained personnel.

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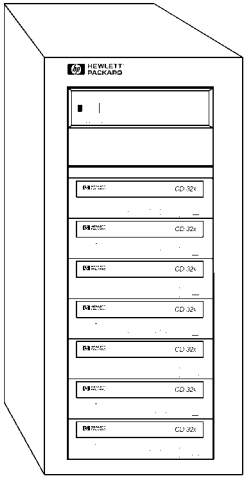
Introduction



HP J4148A SureStore CD Expansion Tower

This user's guide contains information about installing and maintaining HP J4148A SureStore CD Expansion Tower.

The HP J4148A SureStore CD Expansion Tower works with the following products:

- HP J3278A SureStore CD-ROM Server/Tower 7Plus
- HP J3168A SureStore CD-ROM Server (standalone module)

When used with the Server/Tower 7Plus, the expansion tower extends the capacity of the storage system to 14 CD-ROM drives.

When used with the standalone server, the expansion tower provides access to seven CD-ROM drives.

The expansion tower can be floor-mounted or rack-mounted.

Product Description

The HP J4148A SureStore CD Expansion Tower connects to an HP server or server/tower, using the supplied SCSI cable.

The expansion tower contains seven HP CD-ROM drives in a single subsystem. The HP CD-ROM drives are daisy-chained together using an internal SCSI bus interface. The power required to operate the CD-ROM drives is supplied internally by the expansion tower.

All components of the tower are completely modular—the drives are self-configuring modules. In the unlikely event a drive should fail, replacement is a simple and straightforward procedure.

A drive's SCSI ID is set automatically, based on its position in the tower. An active terminator, provided with the expansion tower, must be installed on the back of the tower.

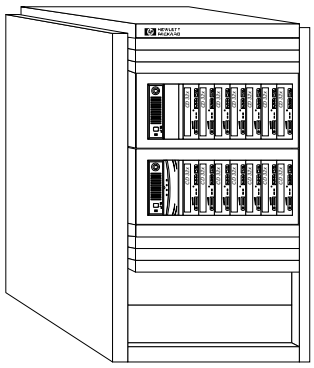
Tower Box Contents

- A seven-bay tower with seven HP SureStore CD-ROM drive modules installed
- 1-meter SCSI-2 cable (part number 5183-7741)
- External active SCSI terminator (part number 5183-7740)
- Front cover keys (part number 5183-2615)
- *User's Guide* (this manual)
- Power cable for your country

Region/Country	Part Number
USA, Canada, Brazil, Mexico	8120-6805
Argentina	8120-6871
Chile	8120-6979
Europe	8120-6802
Denmark	8120-6806
Switzerland	8120-6807
United Kingdom	8120-8709
South Africa, India	8120-6808
Australia, New Zealand	8120-6803
Israel	8120-6799
China	8120-8376

CAUTION! ❑ The power supply input voltage must be set according to the power standards in the country of use. Normally your HP retailer configures the power supply, but you should always double check. Voltage selections are 115 and 230 volts, 50/60 Hz.

Rack Mount Kit



To consolidate HP SureStore CD Expansion Towers with other peripherals in a standard HP 19-inch rack cabinet, use only HP C2982A Tower Rackmount Kit.

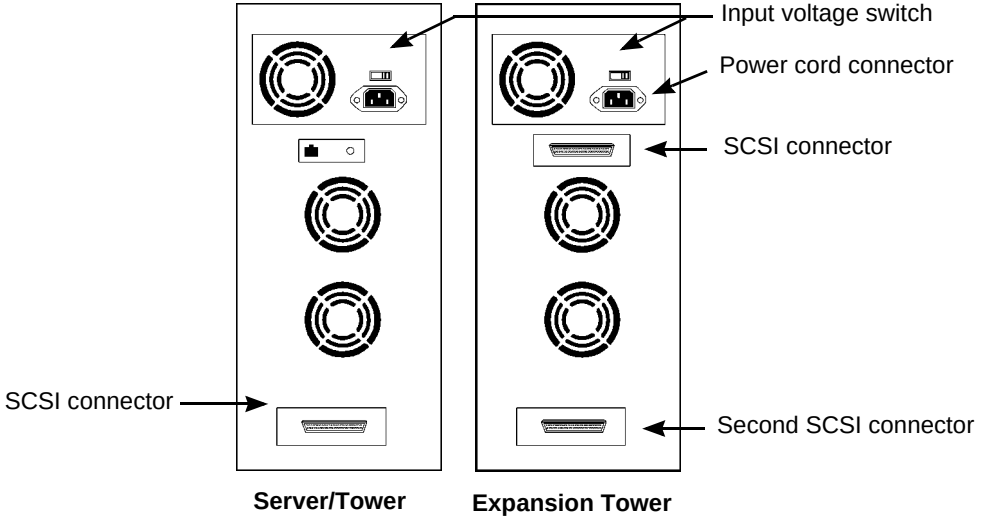
Installation

CAUTION! ❑ Verify that the power supply input voltage of the expansion tower is set according to the power standards in the country of use. If necessary, set the voltage switch on the rear of the tower (see the illustration below) to 115 volts or 230 volts.

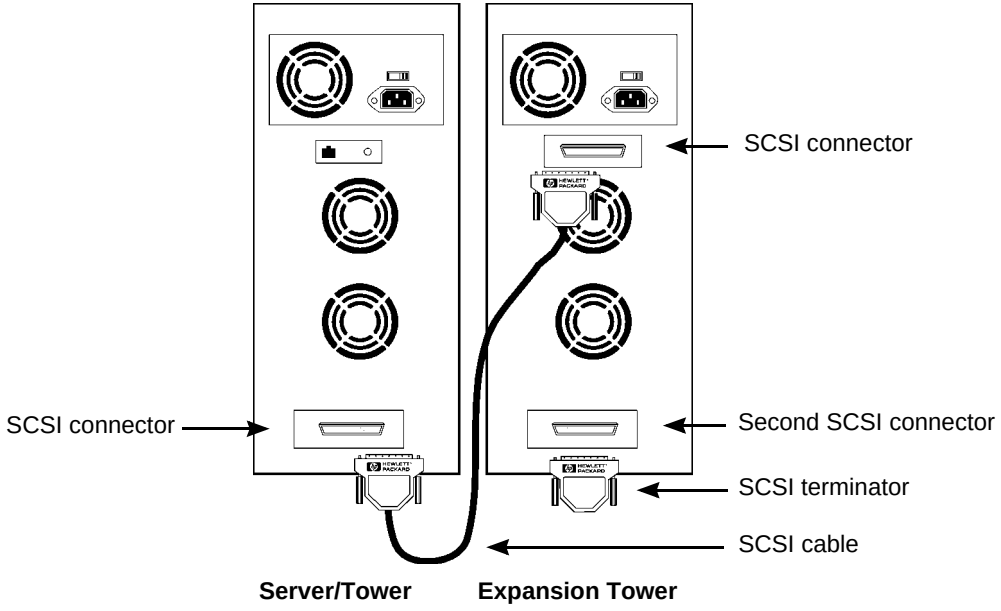
CAUTION! ❑ Verify that the power cable is correct for the country of use. See page 2.

CAUTION! ❑ The SCSI bus of either the CD-ROM server or the expansion tower may be damaged if you connect or disconnect the SCSI cable when either unit is powered on.

1. Switch power to the CD-ROM server/tower ***off***, or remove power to the standalone server.
2. Place the expansion tower next to the CD-ROM server, as in the example of the server/tower shown below.



3. Connect the SCSI cable from the SCSI connector on the CD-ROM server to the top SCSI connector on the expansion tower.
4. Connect the SCSI terminator to the bottom SCSI connector on the expansion tower.



5. Connect the power cable to the expansion tower.
6. Connect the power cable to a power source.
7. Switch power to the expansion tower ***on***.

Note

- ❑ The expansion tower must be powered up before the CD-ROM server. If the server boots before the expansion tower is powered on, the server will not recognize the CD-ROM drives in the expansion tower.

8. Switch power to the server/tower ***on*** or connect the power to the standalone server.

SCSI IDs are set automatically on HP CD-ROM drives, based on their position in the tower. The topmost position is ID 0 and the lowest position is ID 6. All drives are read by the HP CD-ROM server.

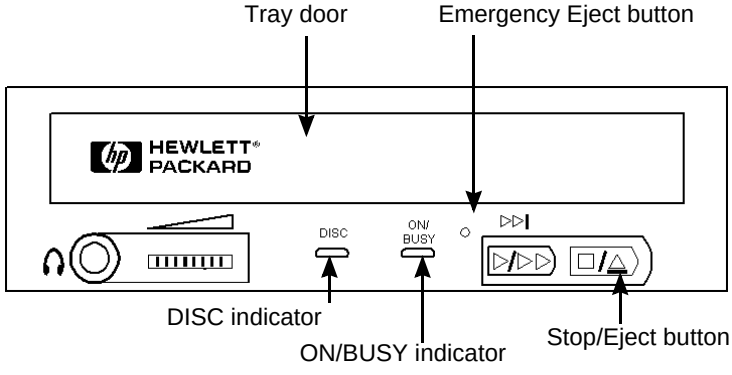
Verifying the Installation

Follow the procedure in the HP CD-ROM server *User's Guide* to validate the correct operation of the server and the individual CD-ROM drives.

Operation and Troubleshooting

Once the HP J4148A expansion tower has been installed and powered on, all other operations are CD-ROM operations.

Using HP SureStore CD-ROM Drives



- **Tray door**: Press the Stop/Eject button to open the door. Insert the CD into the drawer. Press the Stop/Eject button to close the door.
- **Stop/Eject button**: Push to eject CD.
- **Emergency Eject button** (recessed): If the automatic Stop/Eject button does not work, switch off the power. Insert a paper clip or other thin rigid object in this hole to press the recessed button to eject the CD.
- **ON/BUSY** indicator: ***On*** (yellow) when power is switched on. ***Flashing*** continuously when CD is inserted and being accessed. ***Off*** when CD is inserted and not being accessed.
- **DISC** indicator: ***On*** (green) when power is on and CD is inserted. ***Off*** if no CD is inserted.

Tray Loading and Operation

1. While the drive is powered up, push the Stop/Eject button. The tray drawer will slide out in 2–3 seconds.
2. Place the CD into the depression in the tray, label side up. For a rack-mounted expansion tower, the label should face away from the CD-ROM drive's lights and buttons.
3. Press the Stop/Eject button again, and the tray will slide shut within 2–3 seconds.

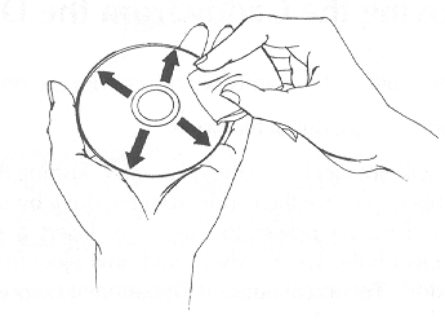
Note

- ❑ We recommend you use the Stop/Eject button to close the tray in a smooth and secure manner. Closing the tray by pressing the front of the drawer by hand is not recommended.

Care of CD-ROMs

Check your CDs periodically to determine if they need cleaning.

If the CD is dusty, you can use a commercially available dust removal spray to blow off dust particles. After removing the dust particles, you can wipe the CD using a clean, soft cotton cloth. Use a straight-line motion, wiping from the center out. Do not wipe the CD in a circular motion.



Correct Procedure for Cleaning a Disc

If a CD becomes dirty or soiled with grease or other contaminants not removable by wiping, you can clean it with a CD-ROM disc cleaner available at most computer dealers. Follow the directions packaged with the cleaner.

Note

- ❑ Keeping your CD in its original case or in the CD-ROM drive at all times will prevent it from becoming dirty or damaged.

Troubleshooting and Repair

Condition	Probable Cause	Resolution
No power to the standalone server, server/tower or expansion tower (power LED is ***off***	Power switch is ***off*** (on server/tower and expansion tower)	Be sure the power switch is ***on***.
	Power cable not connected	Be sure the power cable is connected. Be sure the power cable is appropriate for your country.
	Input voltage is set incorrectly	Switch the power switch ***off***. Check the input power setting—the switch on the back of the tower. Modify the setting only if you are sure the current setting is wrong. **CAUTION**: Your HP-authorized dealer has normally set up the input voltage as required for the country of usage. A lower setting will destroy the power supply. A higher setting will cause a malfunction at a load above four drives, but will not cause any damage. Wait 10 seconds, and switch power ***on*** again (power cycle).
	Power loss	Your facility may be undergoing a blackout or brownout. Be sure the power source for the tower is active. Switch power ***off***, wait 10 seconds, and switch power ***on*** again (power cycle).
	Power supply malfunction	Call HP support for help, as described in appendixes A and B.

Condition	Probable Cause	Resolution
No read activity from a CD-ROM drive	SCSI terminator is not connected	Be sure the SCSI terminator is connected to the CD-ROM server. If it is not: 1. Power down ***both*** the CD-ROM server and the expansion tower. 2. Connect the SCSI terminator. 3. Restore power to the expansion tower and then to the CD-ROM server.
	SCSI cable is not connected	Be sure the SCSI cable is connected to the CD-ROM server. If it is not: 1. Power down ***both*** the CD-ROM server and the expansion tower. 2. Connect the SCSI cable. 3. Restore power to the expansion tower and then to the CD-ROM server.
	No disc in CD-ROM drive	Check the CD-ROM drive to see if it contains a CD. If necessary, insert a CD. If the condition persists, see the next row in this chart.
	Damaged disc in CD-ROM drive	Substitute a known-good disc for the one in the CD-ROM drive. If the condition persists, see the next row in this chart.
	Other tower, SCSI cable, or CD-ROM drive malfunction	1. There may be a faulty component. Consult the troubleshooting procedures following this chart. 2. Consult the troubleshooting procedures in your server's *User's Guide*. 3. Call HP support for help, as described in appendixes A and B.

Finding a faulty component

If the above procedures do not produce a solution to the problem, there may be a fault with a CD-ROM drive, the server, the server/tower, the expansion tower, the SCSI cable, the SCSI terminator, or network access to the server.

Note ❑ Before proceeding, be sure you have tried the troubleshooting scenarios for power, SCSI connection, and a disc present in a drive.

CAUTION! ❑ To protect the equipment, be sure to power down the expansion tower and the server before removing/replacing CD-ROM drives, cables, or terminators.

Is there a problem with just one drive?

It is possible that there is a problem with just one CD-ROM drive. If that is so, then the server, other drives, expansion tower, SCSI cable, and terminator are probably not faulty.

1. Insert a known-good disc in each of the CD-ROM drives. Test only one drive at a time.

   Each drive's **DISC** LED should turn on when a disc is inserted. If some do and some do not turn on, it is probable that the LED *not* turning on indicates a defective drive.

Note

- ❑ For server/tower configurations, test the CD-ROM drives in the server/tower as well as the expansion tower. This test will be valuable if the problem later is determined to be in the server/tower components.

2. If you encounter a defective CD-ROM drive, open the expansion tower, as described below, and remove the drive.

   Removing the drive should cause the rest of the components to operate normally once the unit is powered up again. The tower will operate with any number of CD-ROM drives.

   Call HP support to arrange for a replacement drive.

Note

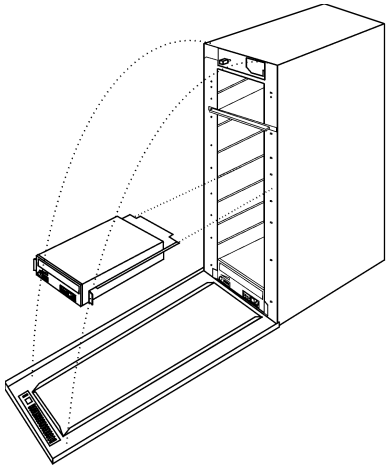
- ❑ The procedures below assume you have the replacement drive. However, if you do not have it yet, simply remove the potentially defective drive. The tower will operate with any number of CD-ROM drives.

Opening the Expansion Tower

1. Switch ***off*** power to the tower (using the switch on the front).
2. Use the key to unlock the front cover. The cover is locked when the key index points to the right. The cover is unlocked when the key index points up.
3. Place both of your hands on the top two corners of the front cover and carefully pull it towards you. The cover remains attached at the bottom.
4. You can now remove the front cover by lifting it up, making sure that the flange at the bottom of the cover has cleared the opening of the tower casing. Set the front cover aside.

Replacing the CD-ROM Drive

1. With the front cover off (see the preceding procedure), remove a CD-ROM drive module by placing both hands on the two handles on both sides. Pull the module out from the front of the bay using even pressure on both handles.



2. Return an HP CD-ROM drive using the warranty procedure described in appendix B, “Warranty.”
3. If you have a replacement HP CD-ROM drive module, install it by aligning the rails with the two grooves provided in each bay of the tower. Slide the module in by holding the two handles on both sides and pushing firmly until it is seated properly. Just before it stops, you should feel the module inserting into its socket.
4. Replace the front cover by first hooking the flange of the cover into the bottom of the tower case. Close the cover by pushing it towards the main body of the tower. Lock the cover using the key. Refer to the installation instructions in chapter 2 for the sequence of power-up steps.

Is there a problem with the expansion tower or its connection?

It is possible that there is a problem with the expansion tower or its SCSI connection. If the installation fails to allow access to all the discs in the seven CD-ROM drives in the expansion tower, this suggests a tower problem and not a server problem.

1. Power down the server and the expansion tower.
2. Disconnect the expansion tower’s SCSI cable from the server.

3. Power up the server. Can you see the server on the network?

   If the server performs correctly, continue with this procedure.

   If the server does *not* perform correctly, the implication is that there is a server problem. Leave this section and go to the next section.

4. Power down the server.

5. Remove all drives from the expansion tower. Follow the procedures in the previous section to open the tower and remove a drive.

6. Re-attach the expansion tower's SCSI cable to the server. Make sure the SCSI terminator is in place on the back of the expansion tower.

7. Power up both the expansion tower and the server.

8. Now check the server LEDs, according to the server's *User's Guide* (troubleshooting section).

   NORMAL: If the server LEDs are normal, the implication is that the tower is working correctly. Despite earlier tests, a CD-ROM drive may be bad.

   - Install the CD-ROM drives one by one, by powering down, installing the drive in the tower, powering up, inserting a CD, and attempting to access it. If the drive is not functioning, call HP support.

   ABNORMAL: If the server LEDs are *not* normal, there is a problem with either the tower or the SCSI cable.

9. Power down the server and the expansion tower. Install a different SCSI cable (a known-good spare).

10. Power up both the expansion tower and the server and check the server LEDs as before.

    NORMAL: The SCSI cable was bad. Call HP support for replacement.

    ABNORMAL: There is a problem with the tower or the SCSI terminator. Call HP support.

Is there a problem with the server?

It is possible that there is a problem with the server.

For server/tower configurations, previous tests should have eliminated the CD-ROM drives in the server/tower as suspects.

For standalone servers, go directly to the "Test the server alone" procedure below.

Test a server/tower without its drives.

1. Power down the server/tower.
2. Remove all drives from the server/tower.
3. Power up the server/tower and check the server LEDs, according to the server's *User's Guide* (troubleshooting section).

   NORMAL: If the server LEDs are normal, the implication is that the tower is working correctly. Despite earlier tests, a CD-ROM drive may be bad.

   - Install the CD-ROM drives one by one, by powering down, installing the drive in the tower, powering up, inserting a CD, and attempting to access it. If the drive is not functioning, call HP support.

   ABNORMAL: If the server LEDs are *not* normal, there is a problem with either the server or the tower.

Isolate the server from the tower.

The next step is to remove the server module from the tower, so that it acts like a standalone server.

1. Power down the server/tower.
2. Disconnect the server module from the server tower by disconnecting the internal SCSI cable (the long connector), leaving the network and power connectors (the short connectors) intact.

Test the server alone.

1. Power up the server and check the server LEDs, according to the server's *User's Guide* (troubleshooting section).

   NORMAL: If the server LEDs are normal, there is a problem with the tower component of the server/tower. Call HP support.

   ABNORMAL: If the server LEDs are not normal, there is a problem with the server. Call HP support.

Getting Support

HP Customer Care Center Phone Numbers

North America		USA & Canada	970-635-1000
Latin America:			
Argentina	787-8080	Mexico	01 800-472-668446 01 800-HPContigo
Brazil	011-829-6612		
Chile	800-360999	Venezuela	800-47-888
Europe and Middle East:			
Austria	0660 6386	Netherlands	020 606 8751
Belgium (Dutch)	02 626 8806	Norway	22 11 6299
Belgium (French)	02 626 8807	Poland	48 22 37 50 65
Czech Republic	42 (2) 471 7321	Portugal	01 441 7199
Denmark	3929 4099	Russia	7095 923 50 01
Finland	0203 47 288	Spain	902 321 123
France	01 43 62 34 34	Sweden	08 619 2170
Germany	0180 52 58 143	Switzerland	0848 80 11 11
Hungary	36 (1) 252 4505	Turkey	90 1 224 59 25
Ireland	01 662 5525	United Kingdom	0171 512 52 02
Italy	02 264 10350	Europe outside the UK (English)	+44-171-512-52-02
Middle east	+41 22/780 71 11		
Africa			+41 22/780 71 11
Asia and Pacific:			
Australia	61 3 9272 8000	Malaysia	03 295 2566
China	86 010 6564 5959	New Zealand	09 356 6640
Hong Kong	800 967729 (toll free)	Philippines	63 2 867 3551
India		Singapore	65 272 5300
Indonesia	62 21 350 3408	Taiwan	886 02 717 0055
Japan	81 3 3335 8333	Thailand	66 02 661 4011
Korea	82 2 3270-0700 or toll free: 080-999-0700		
For all other countries, contact your reseller.			

Electronic Support Services

Hewlett-Packard provides software utilities, firmware upgrades, and support information for HP SureStore CD-ROM products on the World Wide Web and various bulletin board services.

World Wide Web	HP's Electronic Support Center: `http://www.hp.com/go/cdrom_server`
America Online	Go to Keyword `hp` to reach the HP forum. Select "HP Support Documents" Select "Networked Storage"
CompuServe	`go hp` to reach the HP forum. To sign up for CompuServe, call (800) 848-8199 and ask for Representative #51 (USA only).

Warranty

Your Authorized Dealer

If you encounter difficulty, begin by contacting your HP Authorized Dealer who sold this product to you. Your HP Authorized Dealer will be familiar with your requirements and can provide assistance.

Customer Support

Hewlett-Packard Company has support services available to help you in case of difficulties with your HP SureStore CD Expansion Tower. Use the telephone numbers in appendix A, "Getting Support," for all post-sales support, including problems and failures with the product. The support staff will help you with troubleshooting and isolating the failed components, and will advise you on warranty service.

Your Warranty

Two Year, Return-to-HP Warranty

The components of your HP SureStore CD Expansion Tower—the tower and the HP CD-ROM drives—are warranted against defects in materials and workmanship for a period of two years from the date of receipt by the end user. During the warranty period, HP will replace the unit at no charge provided the defective unit is returned. You may return the unit to your HP Authorized Dealer or your local HP Sales and Service Office representative. *Be sure to include a copy of your purchase receipt.*

This warranty does not apply if the HP SureStore CD Expansion Tower has been damaged by accident or misuse, or as a result of service or modification by other than an authorized Hewlett-Packard Service Facility. No other express warranty is given by Hewlett-Packard. Hewlett-Packard shall not be responsible for consequential damages.

For your records, please retain your original proof of purchase. Record the product number and serial number. Your product number is on a white label on the rear of your tower, for example, "J4148A". The serial number is on the same label.

Warranty Service

To identify the failing component in your product—either the CD expansion tower or the HP CD-ROM drive—call the HP customer support telephone number for your country, as listed in appendix A, "Getting Support." Prepare the following information:

- HP product number
- Serial number
- Date of purchase
- Your shipping address
- Description of the component failure (see chapter 9 first)

Ask for instructions for replacing the defective product.

Service Billing (Out of Warranty)

When ordering a replacement unit for out-of-warranty service, you may be charged a repair cost. See your HP Authorized Dealer or your local HP Sales and Service Office representative.

In the USA only, an alternative is to call HP directly at (800) 366-8040. You will need to supply your shipping and billing addresses and one of the following:

- Credit card number with expiration date
- Purchase order number for customers having an established account with HP.

For Australia and New Zealand

For consumer transactions in Australia and New Zealand: The warranty terms contained herein—except to the extent lawfully permitted—do not exclude, restrict, or modify, and are in addition to, the mandatory statutory rights applicable to the sale of this product to you.

Póliza de Garantía (México)

Hewlett-Packard de México, S. A. de C. V. con domicilio en:
Prolongación Reforma No. 470
Col. Lomas de Sta. Fe, 01210
Delegación Alvaro Obregón
Tel. 326 46 00

Garantiza este producto por el término de doce meses en todas sus partes y mano de obra contra cualquier defecto de fabricación y funcionamiento a partir de la fecha de entrega al consumidor final. En el caso de productos que requieran de enseñanza o adiestramiento en su manejo o en su instalación, a partir de la fecha en que hubiese quedado operando normalmente el producto después de su instalación en el domicilio que señale el consumidor.

CONDICIONES :

1. Centros de Servicio, Refacciones y Partes:

Para hacer efectiva esta garantía, no podrán exigirse mayores requisitos que la presentación de esta póliza junto con el producto en el lugar donde fue adquirido o en el centro de servicio ubicado en el domicilio de la parte superior de esta hoja, mismo en el que se pueden adquirir refacciones y partes.

2. Cobertura:

La Empresa se compromete a reparar o cambiar el producto, así como las piezas y componentes defectuosos del mismo, sin ningún cargo para el consumidor. Los gastos de transportación que se deriven de su cumplimiento serán cubiertos por Hewlett-Packard de México, S. A. de C. V.

<table>
<tr><td>Producto</td><td colspan="2">Marca</td><td>Modelo</td></tr>
<tr><td>No. de Serie</td><td colspan="3">Nombre del Distribuidor</td></tr>
<tr><td colspan="4">Dirección : (Calle, Número, Colonia o Poblado, Delegación o Municipio)</td></tr>
<tr><td>C.P.</td><td>Ciudad.</td><td>Estado</td><td>Teléfono</td></tr>
<tr><td colspan="4">Fecha de entrega o instalación</td></tr>
</table>

3. Tiempo de Reparación:

El tiempo de reparación en ningún caso será mayor a treinta días contados a partir de la recepción del producto en cualquiera de los sitios en donde pueda hacerse efectiva la garantía.

4. Limitaciones:

Esta garantía no es válida en los siguientes casos:

1. Cuando el producto ha sido utilizado en condiciones distintas a las normales.
2. Cuando el producto no ha sido operado de acuerdo con el instructivo de uso en idioma Español proporcionado.
3. Cuando el producto ha sido alterado o reparado por personas no autorizadas por Hewlett-Packard de México, S.A. de C. V.

Notas:

El consumidor podrá solicitar que se haga efectiva la garantía ante la propia casa comercial donde adquirió el producto siempre y cuando el fabricante o importador no cuente con talleres de servicio.

En caso de que la presente garantía se extraviara, el consumidor puede recurrir a su proveedor para que se le expida otra póliza de garantía, previa presentación de la nota de compra o factura respectiva.

Certificado de Garantia (Argentina)

Hewlett-Packard Argentina, S. A.
Montañeses 2150
1428 Buenos Aires
Argentina
Tel. 787 7100

Producto:	
Modelo:	
No. de serie:	
Fecha de entrega:	
Vigencia de la garantía:	
Extensión de la garantía:	

A. Cobertura de la garantía:

1. Hewlett-Packard Argentina, S.A. (HPA) garantiza al cliente (usuario final) que el producto al que se refiere esta garantía estará libre de defectos de fabricación y de mano de obra por el término antes indicado contando desde la fecha de compra del producto por parte del usuario final original a un distribuidor o comercializador debidamente autorizado por HPA.
2. La presente garantía cubre únicamente aquellos defectos que surgiesen como resultado del uso normal del producto y no por aquellos que resultasen de:
    a. Mantenimiento inapropiado o inadecuado, alteración o reparación realizados por personal no autorizado por HPA;
    b. Uso de software, accesorios, soportes, suministros, consumibles o interfaz no suministrados por HPA;
    c. Modificaciones no autorizadas o uso indebido;
    d. Operación fuera de las especificaciones ambientales para el producto, incluyendo abuso del ciclo de trabajo o uso de cargas de conmutadores sin protección contra sobretensiones;
    e. Uso de medios de impresión o tarjetas de memoria no soportados;
    f. Lugar de uso o mantenimiento inapropiados;
    g. Daños durante el traslado; o

h. Cualquier violación de las condiciones de uso, instalación y mantenimiento necesarias especificadas en el Manual de Operaciones.

3. Si el cliente (usuario final), durante el periodo de garantía, pusiera en conocimiento de HPA la existencia de los defectos definidos anteriormente, HPA podrá, según prefiera, reparar o reemplazar el producto si está averiado. Cualquier producto de reemplazo será nuevo o como nuevo. En caso que al momento del reemplazo no hubiese disponible un producto idéntico al reemplazado (ya sea por discontinuación de su producción, falta de stock o por cualquier otra causa), HPA se reserva el derecho de suministrar un producto de prestaciones o funcionalidad por lo menos iguales a las del producto reemplazado. Si luego de un plazo razonable, no fuese posible para HPA reparar o reemplazar el producto, el cliente tendrá derecho, como única compensación, al reintegro del precio de compra, contra la devolución del producto a HPA.

B. Limitación de la garantía:

1. NI HPA, NI NINGUNA ENTIDAD O PERSONA DIRECTA O INDIRECTAMENTE VINCULADA O RELACIONADA CON HPA: A) OFRECEN NINGUNA OTRA GARANTIA DE NINGUNA INDOLE, EXPRESA O IMPLICITA, ORAL O ESCRITA, RESPECTO AL PRODUCTO AL QUE SE REFIERE ESTA GARANTIA; O B) FORMULAN NINGUNA GARANTIA IMPLICITA DE COMERCIALIZACIÓN O ADECUACIÓN DEL PRODUCTO PARA UN PROPOSITO DETERMINADO.

   HPA NO OFRECE NINGUNA GARANTÍA DE QUE LA OPERACIÓN DE SUS PRODUCTOS SERÁ ININTERRUMPIDA O LIBRE DE ERRORES.

C. Exoneración de responsabilidad:

EXCEPTUANDO LAS OBLIGACIONES EXPUESTAS EN ESTE CERTIFICADO DE GARANTIA, BAJO NINGUNA CIRCUNSTANCIA HPA SERÁ RESPONSABLE DE CUALQUIER DAÑO DIRECTO O INDIRECTO (INCLUYENDO SIN LIMITACIÓN, PERDIDA DE DATOS O LUCRO CESANTE) O POR CUALQUIER DAÑO O PERJUICIO QUE SEA CONSECUENCIA DIRECTA, INDIRECTA O REMOTA DEL USO O MAL FUNCIONAMIENTO DEL PRODUCTO, CUALQUIERA QUE SEA EL FUNDAMENTO DEL RECLAMO (CONTRACTUAL, EXTRACONTRACTUAL O LEGAL).

LOS REMEDIOS DESCRITOS EN ESTA GARANTIA SON LOS UNICOS Y EXCLUSIVOS.

D. Condiciones particulares:

E. Reparaciones:

Comuníquese con el distribuidor o comercializador debidamente autorizado por HPA que le vendió este producto, o para servicio mas rápido, llame al Centro de Asistencia Técnica, al numero 787-8080.

Las reparaciones se llevarán a cabo en los centros autorizados de servicio en Argentina, contra la presentación del producto, este Certificado de Garantía y la factura original de compra del producto, en el caso de impresoras presentar la HP Card.

Technical Specifications

Note ❑ Specifications are subject to change without prior notice.

Expansion Tower

Dimensions	Height: 440 mm Width: 215 mm Depth: 370 mm
Weight	19.4 kg (42.8 lb)
Front Panel Security	Front Door Lock, barrel type. Mechanisms not removable when door is locked. Media removable when door is locked.
Backplane PCB	Manages power distribution, SCSI ID setting, and SCSI interconnect. CD-ROM drives are connected using a single card-edge connector.

Interface Connectors

CD-ROM Drive	SCSI-2, direct plug-in for HP CD-ROM drive module
External SCSI Connectors	50-pin high density SCSI-2, with latch and thumb screw cable attachment

HP SureStore CD-ROM Drives

Data Transfer Rate **Sustained** **Burst**	Full CAV 2.082MByte/s (14X speed) 4.828MByte/s (32X speed) 10 MByte/s (synch) 5.0 MByte/s (asynch)
Random Access Speed	85 ms
Data Buffer	512 KByte (256 blocks)
Eject	Auto Eject; Manual Emergency Eject
Disc Loading	Automatic
Tray Loading	30,000 load cycles
Rear Panel Power Supply	+5 Vdc at average .71A +12 Vdc at average .38A
Interface Connector	Fast SCSI Bus, 50-pin header-type connection to tower through HP module carrier only
Termination	Jumper switch. Termination disabled by default in tower.
Jumper Switches	SCSI ID configured by the position of the HP CD-ROM drive in the tower (upper=ID#0, lower=ID#6) Parity=On by default
Dimensions	162.00 mm x 41.65 mm x 250.00 mm with carrier
Weight	1.2 kg with carrier

Electrical and Environmental

Power	Must be correctly configured before power attached, or damage may result	At User-Selectable Input Voltage	
		100–127 Vac	200–240 Vac
	Current	2 A	1 A
	Frequency	50/60 Hz	
Environmental	**Temperature**	41–104°F (5-40°C)	
	Humidity	0–80% RHG, noncondensing	
	Acoustics	L NPE 5.5 bels, maximum	
	Heat discharge	273 BTU/hr	
Electromagnetic	**Complies with:**	FCC Part 15, Class A EN 55022 Class-B EN 50082-1 VCCI Class A Canadian EMC Class A requirements Australian EMC Class A requirements For more information, see appendix D.	
Safety	**Complies with:**	EN 60950 / IEC950 UL 1950 NOM-019-SCFI-1994 CSA 950	

Regulatory and Safety Information

Regulatory Statements

FCC Statements

General Information. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Pursuant to Part 15.21 of the FCC Rules, any changes or modifications to this equipment not expressly approved by the Hewlett-Packard Company may cause interference and void the FCC authorization to operate this equipment.

The Federal Communications Commission has prepared a booklet titled Interference Handbook (1986), which may be helpful to you. This booklet (stock number 004-000-004505-7) may be purchased from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

FCC Class A. This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against interference in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Australia

This equipment complies with Australian EMC requirements.

Canada

This equipment complies with Canadian EMC Class-A requirements.

Japan: VCCI Class A

注意

この装置は、情報処理装置等電波障害自主規制協議会（ＶＣＣＩ）の基準に基づく第一種情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

Taiwan: Class A

警告使用者：這是甲類的資訊產品，在居住的環境中使用時，可能會造成射頻干擾，在這種情況下，使用者會被要求採取某些適當的對策。

European Community

Declaration of Conformity. The following Declaration of Conformity complies with ISO/IEC Guide 22 and EN 45014. It identifies the product, the manufacturer's name and address, and the applicable specifications that are recognized in the European community.

DECLARATION OF CONFORMITY
according to ISO/IEC Guide 22 and EN45014

Manufacturer's Name: Hewlett-Packard Company

Manufacturer's Address: 8000 Foothills Blvd.
Roseville, CA 95747
U.S.A.

declares that the product:

Product Name: HP SureStore CD Expansion Tower

Model Number: J4148A

conforms to the following Product Specifications:

Safety: IEC 950:1991 + A1,A2,A3,A4 / EN 60950:1992 + A1,A2,A3,A4

EMC: EN 55022 (1994) / CISPR-22 (1993) class B
EN50082-1 (1992)
prEN 55024-2 (1992) / IEC 801-2 (1991) 4 kV CD, 8 kV AD
prEN 55024-3 (1991) / IEC 801-3 (1984), 3 V/m
prEN 55024-4 (1992) / IEC 801-4 (1988): 1 kV-(power line)
0.5 kV-(signal line)

Supplementary Information:

The product herewith complies with the requirements of the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC and carries the CE marking accordingly. CD ROM drives and LED's in this product(s) are Class-1 in accordance with EN60825-1:1994. Meeting the above specifications requires shielded cables.

Tested with Hewlett-Packard Co. products only.

Roseville, November 4, 1998

Grant Marten, Regulatory Manager

European Contact: Your local Hewlett-Packard Sales and Service Office or Hewlett-Packard GmbH, Department TRE, Herrenberger Strasse 130, D-71034 Böblingen (FAX:+49-7031-14-3143)

Safety Statements

Follow the safety considerations described on page ii (the page following the title page) in this *User's Guide*.

Chinese Safety Statement

HP 网络产品使用安全手册

使用须知

欢迎使用惠普网络产品，为了您及仪器的安全，请注意如下事项

1. 仪器要和地线相接。要使用有正确接地插头的电源线，使用中国国家规定的220V电源。
2. 避免高湿度和灰尘多的地方，否则易引起仪器内部部件的损坏。
3. 避免接近高温，避免接近直接热源，如直射太阳光、暖气等其它发热体。
4. 不得有异物或液体落入机内，以免部件短路。
5. 不要将强磁体放置于仪器附近。

警告

为了防止火灾或触电事故，请不要将该机放置于淋雨或潮湿处。

安装

安装辅助管理模块请参看安装指南。

保修及技术支持

如果您按以上步骤正确使用但遇到了问题，或想了解其它产品性能，请按以下方式与我们联络。

如果是硬件故障:

1.与售出单位或当地维修机构联系。

2.惠普维修中心:

北京市海淀区知春路56号　中航科技大厦

邮政编码: 100086

电话: 010-62623888 转 6101

如果是软件问题:

1.惠普技术支持中心热线电话: 010-65053888 转 5858

2.传真自动回复系统: 010-65055280

USA: Laser Safety Statement

The HP SureStore CD Expansion Tower contains a laser system and is classified as a "Class 1 Laser Product" under a U.S. Department of Health and Human Services (DHHS) Radiation Performance standard according to the Radiation Control for Health and Safety Act of 1968.

To ensure proper use of this product, please read this *User's Guide* carefully and retain for future reference. Should the unit ever require maintenance, contact an authorized service location.

WARNING!

- ❑ Use of control, adjustments, or performance procedures other than those specified herein may result in hazardous radiation exposure. To prevent direct exposure to laser beam, do not try to disassemble the CD-ROM drives.

Germany: Vorsicht

Dieses Gerät ist ein Laser Klasse 1 nach IEC 825. Beachten Sie die Bedienungsanleitung und verwahren Sie diese für späteren Gebrauch.

Gerät nicht öffnen. Lassen Sie Instandhaltungsarbeiten durch Vertragswerkstätten durchführen.

VORSICHT!

- ❑ Führen Sie Einstellungen und Prüfungen entsprechend den hier beschriebenen Anleitungen durch, um Gefährdungen durch den Laserstrahl zu vermeiden.

WARNING!
Lifting Precautions

- ❏ HP J4148A SureStore CD Expansion Tower weighs 19.4 kilograms (42.8 pounds). Two people are required to lift the tower.

Mounting Precautions

When you put the tower into a rack, follow these mounting precautions:

- ❏ Use only the HP C2982A CD-ROM Tower Rackmount Kit for mounting hardware.
- ❏ The rack or cabinet should be adequately secured to prevent it from becoming unstable and/or falling over. The tower should be mounted in a position toward the bottom of the rack for stability.
- ❏ Ensure that the expansion tower does not overload the power circuits, wiring, and over-current protection. To determine the possibility of overloading the supply circuits, add together the amperage ratings from the labels of all equipment installed on the same circuits and compare the total with the rating limits for the supply circuits.
- ❏ Make sure that the power source circuits are properly grounded, then use the supplied power cable to connect the server tower to the circuit. See the "Safety Considerations" statements on page ii (the page following the title page in this guide).

  If your installation requires a different power cord than the one supplied with the expansion tower, be sure to use a power cable displaying the mark of the safety agency that defines the regulations for power cables in your country. The mark is your assurance that the power cable can be used safely with the expansion tower.
- ❏ Do not install the expansion tower in an environment where the operating ambient temperature might exceed 40°C (104°F).
- ❏ Do not block airflow around the back of the unit.

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